

## Product datasheet for **MR208468**

### Prkcsh (BC009816) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prkcsh (BC009816) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prkcsh
Synonyms:	80K-H; PKCSH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208468 representing BC009816  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGCTGCTGCTGCTACTACTACTACCCTCTGTTGGCTGTAGAAGTCAAGAGACCCCGGGCGTTT  
 CCCTCAGCAACCATCACTTCTATGAAGAATCTAAACCTTTCACCTGTTTGACCGGCACAGCCACCATCCC  
 ATTCGATCAGGTGAACGACGACTACTGCGACTGTAAAGACGGTTCAGATGAGCCTGGCACAGCTGCTTGT  
 CCCAATGGCAGCTTTCCTGACCAACTGGGTACAAGCCCTGTACATCCTCTCCAGCCGGTCAATG  
 ATGGGGTATGTGACTGCTGTGATGGCACAGACGAGTACAACAGCGGCACGGTCTGCGAGAACACCTGCAG  
 AGAGAAGGTTCGCAAGGAAAAAGAGTCCCTGCAGCAGCTGGCGGAAGTACCCCGTGAAGGGTTCGCGCTG  
 AAGAAGATTCTCATTGAGGAGTGAAGACAGCCCGGAAGAAAAGCAGAGTAAGCTTCTTGAGCTTCAGG  
 CTGGAAAGAAGTCTCTGGAAGACCAGGTAGAAACTGCGGGCAGCGAAAGAAGAAGCAGAGAGGCCAGA  
 GAAGGAGGCCAAGGACCAGCACCAGGAGCTGTGGGAAGAGCAGCAAGCTGCTGCCAAGGCCCGGGCGGAA  
 CAGGAGCGGGCAGCCAGTGCCTTCCAGGAACCTGACGACAACATGGATGGATGGTCTCGCTGGCTGAGT  
 TACAGACTCACCCGGAGCTGGACACAGATGGAGATGGAGCGCTGTCTGAGGAGGAGGCCAGGCCCTTCT  
 CAGTGGAGACACAGACTGACACCACCTCTTATGACCGTGTCTGGGCTGCCATCAGGGACAAGTAC  
 CGCTCTGAGGTCCCGCCACTGACATACCTGTTCCGGAGGAGACTGAGCCCAAAGAGGAAAAGCCACCAG  
 TGTGCCACCCACAGAGGAGGAGGAAGAGGAGGAGGAGGCCAGAAGAAGAGGAGGAGGAAGAGGAAGA  
 GGAGGAGTGCAGGGGAGCAGCCCAAGGAGGCTCCGCCCCACTGCAGCCCCACAGCTCCAGCCCC  
 ACAGAGGATGAGAAGATGCCGCCCTATGATGAGGAGACCCAGGCCATCATCGATGCTGCACAGGAGCCCC  
 GGAGTAAGTTTGAAGAGTCAACCGTCTTGAAGAGATGGAAGAGTCCATCAGGAGTTTGAACAAGA  
 GATCTCCTTTGATTTCCGTCCTCTGGAGAGTTTGCATATCTCTACAGCCAATGCTACGAGCTCACACC  
 AATGAGTACGCTACCGCTTTGCCCTTCAAACCTGGTCTCCAGAAACCCAAACATGGGGCTCCCCGA  
 CCAGCCTGGGCACATGGGGCTCTGGGCTGGCCCTGATCATGACAAGTTCAGTGCATGAAGTACGAGCA  
 GGGCAGGGCTGTTGGCAGGGCCCAACCGATCCACCACAGTGCAGCTGCTGTGTGGCAAAGAGACTGTG  
 GTGACCAGCACCAGGAGCCAGTCGCTGTGAGTACCTCATGGAGCTGATGACACCAGCAGCTGCCAG  
 AGCCGCCACCAGAAGCACCAGTATGGGACCATGACGAGCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208468 representing BC009816  
 Red=Cloning site Green=Tags(s)

MLLLLLLLLLPLCWAVEVKRPRGVSLSNHFFYEESKPFCLDGTATIPFDQVNDYDCCKDGSDEPGTAAC  
 PNGSFHCTNTGYKPLYILSSRVNDGVDCDGTDEYNSGTVCENTCREKGRKEKESLQQLAEVTREGFRL  
 KKILIEEWKTAREEKQSKLLELQAGKKSLEDQVETLRAAKEEAERPEKEAKDQHRKLWEEQAAAARRE  
 QERAASAFQELDDNMDGMVSLAELQTHPELDTGDGALSEEEAQLLSGDTQDTSFYDRVWAAIRDKY  
 RSEVPPTDIPVPEETEPKEEKPPVLPPTEEEEEEEEEEEEEEEEEEEEVQGEQPKEAPPPLQPPQPPSP  
 TEDEKMPPYDEETQAIIDAAQEARKFEEVERSLKEMEESIRSLEQEIFDFGPSGEFAYLYSQCYELTT  
 NEYVYRLCPFKLVSQPKKHGGSPTSLGTWGSWAGPDHDKFSAMKYEQGTGCWQGPNRSTTVRLLCGKETV  
 VTSTTEPSRCEYLMELMTPAACPEPPPEAPSDGDHDEL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9058\\_d07.zip](https://cdn.origene.com/chromatograms/mm9058_d07.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** BC009816

**ORF Size:** 1584 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [BC009816.1](#)
**RefSeq Size:** 2011 bp

**RefSeq ORF:** 1586 bp

**Locus ID:** 19089

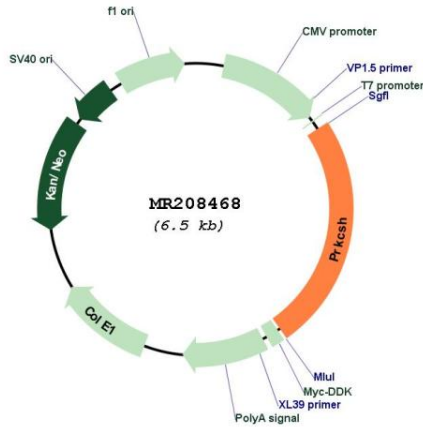
**Cytogenetics:** 9 8.04 cM

**MW:** 59.6 kDa

**Gene Summary:**

Regulatory subunit of glucosidase II that cleaves sequentially the 2 innermost alpha-1,3-linked glucose residues from the Glc(2)Man(9)GlcNAc(2) oligosaccharide precursor of immature glycoproteins (PubMed:27462106, PubMed:9148925). Required for efficient PKD1/Polycystin-1 biogenesis and trafficking to the plasma membrane of the primary cilia (PubMed:21685914). [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208468